PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 703487PCT	FOR FURTHER A	CTION	See Form PCT/IPEA/416	
International application No. PCT/CA2005/000289	International filing d 28 February 2005 (ate (day/month/year) (28-02-2005)	Priority date (day/month/year) 04 March 2004 (04-03-2004)	
International Patent Classification (IPC) or national classification and IPC IPC(7): E05F 11/48, E05F 15/16				
Applicant INTIER AUTOMOTIVE CLOSURES INC. ET AL				
This report is the international prelimi under Article 35 and transmitted to the	nary examination report applicant according to	t, established by this Interna Article 36.	ational Preliminary Examining Authority	
2. This REPORT consists of a total of 4 sheets, including this cover sheet.				
3. This report is also accompanied by AN	NEXES, comprising:			
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1		, –		
[X] sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
[] sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. 1 and the Supplemental Box.				
b. [] (sent to the International	Bureau only) a total o	f (indicate type and number	of electronic carrier(s))	
	containing a	sequence listing and/or tabl	es related thereto, in electronic	
form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications relating	ng to the following item	ns:		
[X]Box No. I Basis of the report				
[] Box No. II Priority				
[] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			p and industrial applicability	
[] Box No. IV Lack of unity of invention				
[X]Box No. V Reasoned statement under Article 35(2) with regard to povelty, inventive step or industrial applicability;			entive step or industrial applicability;	
citations and explanations supporting such statement				
[] Box No. VI Certain documents cited				
[X] Box No. VII Certain defects in the international application				
[] Box No. VIII Certain observations on the international application				
Date of submission of the demand 28 June 2005 (28-06-2005)		Date of completion of this report 18 November 2005 (18-11-2005)		
Name and mailing address of the IPEA/C	A	Authorized officer		
Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box	PCT			
50 Victoria Street Gatineau, Quebec K1A 0C9		· Hoan H	uynh (819) 934-3467	
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International application No. PCT/CA2005/000289

Box	No.	Basis of the	report		
1.	Witl	n regard to the la	anguage, this report is based	on:	
	[X]	the internationa	al application in the language	in which it was filed	
	[]	a translation of	the international application	into	, which is the language of a
		translation furn	ished for the purposes of:		
		[] internation	onal search (Rules 12.3(a) and	d 23.1(b))	
l		[] publication	on of the international applica	ation (Rule 12.4(a))	
		[] internation	onal preliminary examination	(Rules 55.2(a) and/or 55.3(a))	
2.	to th	ne receiving Offic exed to this repo	ce in response to an invitation	n under Article 14 are referred to	(replacement sheets which have been furnished in this report as "originally filed" and are not
		the description:			
	[**]	[X] pages	1 <u>-6</u>		as originally filed/furnished
		[] pages*		received by this Authority on	
		[] pages*		received by this Authority on	
	[X]	the claims:		,	
		[] pages		:	as originally filed/furnished
		[] pages*		as amended (together v	with any statement) under Article 19
		[X] pages*	7, 8, 8a (Claims 1-12)	received by this Authority on	03 October 2005 (03-10-2005)
		[] pages*		received by this Authority on	
	[X]	the drawings:		•	
		[X] pages	<u>1-3</u>	•	as originally filed/furnished
		[] pages*		received by this Authority on	
		[] pages*		received by this Authority on	
	[]	a sequence listi	ing and/or any related table(s)) - see Supplemental Box Relating	g to Sequence Listing.
3.	[]		its have resulted in the cancel	lation of:	
			ription, pages	:	
		[] the claim			
			ings, sheets/figs		
			ence listing (specify):		
		[] any table	e(s) related to sequence listing	g (specify):	
				:	
4.	[]				nis report and listed below had not been made, ted in the Supplemental Box (Rule 70.2(c)).
		[] the descr	ription, pages		
		[] the claim		1	
		[] the draw	ings, sheets/figs	1	
			ence listing (specify):	1	
		[] any table	e(s) related to sequence listing	g (specify):	
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				1	
*	If iter	n 4 applies, som	e or all of those sheets may b	e marked "superseded."	

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or indust	rial
applicability; citations and explanations supporting such statement	

1. Statement				
Novelty (N)	Claims	<u>1-12</u>		YES
	Claims	<u>NONE</u>		NO
Inventive step (IS)	Claims Claims	<u>1-12</u> <u>NONE</u>		YES NO
Industrial applicability (IA)	Claims Claims	<u>1-12</u> <u>NONE</u>		YES NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents: D1: US6256929 (Serrano et al.) 10 July 2001

D1 discloses a window regulator having a rail member, a cable, and a motor. The motor drives the cable along the rail to move a window pane engaged on the cable. The rail has a mounting on which a motor casing which houses the motor can be adjusted to a selected position and then securely fixed to the mounting. The motor that operates the cable is also fixed to the casing. The selectability of the mounting position allows the drive motor to be moved for tensioning of the rail cable.

Novelty (N)

Claims 1-12 appear to comply with PCT Article 33(2) because the prior art does not teach a window regulator characterized by a rail having a guide located at one end and a drive means located at the opposite end whereby the drive means are pivotally mounted to the rail to allow the drive means to be moved away from the opposite guide to tension a drive cable.

Inventive Step (IS)

Claims 1-12 appear to meet the criteria set out in PCT Article 33(3). The claims are considered to involved an inventive step, having regard to the closest prior art D1at the relevant date. D1 teaches of a centrally-located motor housing which is pivotally mounted to a window regulator rail assembly to allow tensioning of the drive cable. It would not have been obvious for a person skilled in the art to relocate the pivotal-mounted drive means of D1 to one end of the rail as per current invention.

Industrial Applicability (IA)

The subject matter of claims 1-12 is considered to be industrial applicable and thus fulfills the requirement of PCT Article 33(4).

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The following	defects in the form or contents of the international application have been noted:
he internationa	does not comply with PCT Rule 8.1(d). Each technical feature mentioned in the abstract and illustrated by a drawing is application should be followed by a reference sign, placed between parenthesis.
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We claim:

1. A window regulator comprising:

at least one lift plate to which a window can be affixed; at least one rail along which said at least one lift plate can be moved, the rail including a guide located adjacent one end and a drive means located adjacent the opposite end, the drive means including a driven drum driven by said drive means;

and a flexible drive member extending about said driven drum and said guide and connected to said lift plate such that movement of said driven drum moves said lift plate along the at least one rail via said flexible drive member and wherein said drive means and said driven drum are pivotally mounted to said rail to allow said driven drum to be moved away from said guide to tension said flexible drive member.

- 2. The window regulator of claim 1 wherein said flexible drive member is a belt.
- 3. The window regulator of claim 1 wherein said flexibly drive means is a wire cable.
- 4. The window regulator of claim 1 wherein said guide is a pulley.
- 5. The window regulator of claim 1 including first and second rails, each rail having a lift plate to which a respective one of opposed sides of a window can be attached, the first rail including said guide adjacent one end and said drive means and driven drum adjacent said opposite end and the second rail including a guide adjacent each respective end and wherein the flexible drive member extends about a first portion of the driven pulley and the guide of the first rail and a second flexible drive member extends around a second portion of the driven drum and each guide of the second rail such that movement of said driven drum moves each lift plate in the same direction along each respective rail.
- 6. The window regulator of claim 5 wherein at least one of said guides is a pulley.

- 7. The window regulator of claim 5 wherein the flexible drive member passes through first and second conduits extending between said first and second rails.
- 8. The window regulator of claim 5 wherein said driven drum also includes a guide portion.
- 9. The window regulator of claim 1 including complementary toothed surfaces on said rail and said drive means, said complementary toothed surfaces inter-engaging to maintain said drive means in a desired position wherein said flexible drive member is tensioned to a selected degree.
- 10. In a window regulator having a drive means including a driven drum engaging a flexible drive member that is connected to a lift plate, wherein the flexible drive member is routed about a guide mounted to one end of a rail, an improvement comprising pivotally mounting the drive means to an opposite end of the rail.
- 11. A window regulator comprising:
 - at least one rail;
 - a flexible drive member;
 - at least one lift plate connected to the flexible drive member;
- at least one guide mounted to the at least one rail for routing the flexible drive member; and

drive means including a driven drum engaging the flexible drive member, wherein the drive means is pivotally mounted to the at least one rail to allow the driven drum to be moved in relation to the at least one guide in order to tension the flexible drive member.

- 12. A window regulator comprising:
 - at least one lift plate to which a window can be affixed;
- at least one rail along which said at least one lift plate can be moved, the rail including a guide located adjacent one end and a drive means located adjacent the opposite end, the drive means including a driven drum driven by said drive means;

and a flexible drive member in the form of an endless loop of preselected

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length, the drive member extending about said driven drum and said guide and connected to said lift plate such that movement of said driven drum moves said lift plate along the at least one rail via said flexible drive member and wherein said drive means and said driven drum are pivotally mounted to said rail to allow said driven drum to be moved away from said guide to tension said flexible drive member.